Gmelin Handbook of Inorganic Chemistry. 8th Edition, Mn Manganese, Part C9. Compounds of Manganese with Phosphorus, Arsenic, Antimony, G. Czack, E. Koch-Bienemann, P. Kuhn, S. Ruprecht, F. Schröder, U. Trobisch-Raussendorf, and S. Waschk, volume authors, H. Katscher, chief editor, System number 56, Gmelin Institut für Anorganische Chemie der Max-Planck-Gesellschaft zur Förderung der Wissenschaften and Springer-Verlag, Berlin/Heidelberg/New York, 1983, xxii + 456 pages, DM 1260.

The C series for manganese is concerned with compounds of the element and the present work, C9, deals with derivatives of P, As, and Sb. This volume is of indirect relevance to practitioners of organometallic chemistry. The subject matter concerns phosphides, phosphates, arsenides, arsenates, and antimonides of manganese. The major part deals with manganese phosphates.

The literature is covered up to the end of 1980, and the account is in English.

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Gmelin Handbook of Inorganic Chemistry. 8th Edition, B Boron Compounds, 2nd Supplement Volume 2. Boron and Halogens, Chalcogens, Carboranes, Formula Index for 2nd Suppl. Vol. 2. K. Beeker, A. Meller, and T. Onak, volume authors, K. Niedenzu, editor, System number 13. Gmelin institut für Anorgnische Chemie der Max-Planck-Gesellschaft zur Förderung der Wissenschaftten and Springer-Verlag, Berlin/Heidelberg/New York, 1982, xix + 376 pages, DM 1185.

The number of volumes of Gmelin devoted to boron is now very considerable. The Main Volume appeared as a slim text with the closing date of 1925, and was followed by a somewhat larger supplement, bringing the literature to 1949. The so-called "New Supplement", in 20-volumes, brought the literature to the mid-1970's. This was followed by "Boron Compounds", First Supplement Volume (3 parts) up to the end of 1977. Now we have Part 2 of the Second Supplement Volume. It deals with the following: 1) compounds of the halogens (by A. Meller), 154 pages; 2) compounds of the chalcogens (by K. Beeker), 67 pages; and 3) carboranes (by T. Onak), 112 pages; together with 4) a substantial formula index. The literature is covered to the end of 1980, and the volume is written in English.

This text will be of considerable value to practitioners of organoboron chemistry. For example, included are compounds of formulae RBCl₂, R₂BCl, and RB(Cl)NR'₂, as well as heteroaromatics containing sulphur and boron. The field of carboranes, of course, continues to flourish.

Inevitably, if one is carrying out a literature survey, there is some disadvantage at having to consult so many volumes. For instance, if one examines the section entitled "Tetrachloroborate Ion", one would find that the salt in which the cation is [NEt₄]⁺ was prepared during the period in question by a reaction of the corresponding chloride with BCl₃ in CH₂Cl₂. While this is certainly correct, it is obviously a very minor modification of the preparation in 1957 of the first such compound, in which the cation was pyH⁺, made in identical fashion.